

ABSTRACT

The present invention is a method for making a repetitive or non-repetitive modular weave design. The method described enables one to create the modular element bearing the image of woven string segments and to assemble a collection of these modules to create the overall weave design. Assembling a plurality of substantially identical modules to cover a surface creates the overall weave design. Aligning the modules similarly creates a repetitive weave design, and changing the orientation of one or more modules in the overall pattern changes the weave design while maintaining the woven relationship of the strings. Each module of area has the shape such as a polygon or a derivative thereof such that the collective placement of these modules side by side with their edges aligned forms a continuous covering of a surface. One type of shape is a regular polygon, such as a square. Another is based on a square, but the sides are curved like an "S" so that the edge of one module can nest along the edge of the adjacent module. Triangles and hexagons can be used on two-dimensional surfaces and their derivatives with curved edges can be used as well. Similarly, pentagons and their derivatives with curved edges can be used to cover three-dimensional surfaces.